

IC Application Note No. S-32

Title: ppt analysis (ng/L) in ion chromatography

Summary: Determination of chloride, nitrate and sulfate in ultrapure water after sample pre-concentration using anion chromatography with conductivity detection after chemical suppression.

Sample: Ultra pure water

Sample Preparation: Preconcentration of 25 mL of ultra pure water

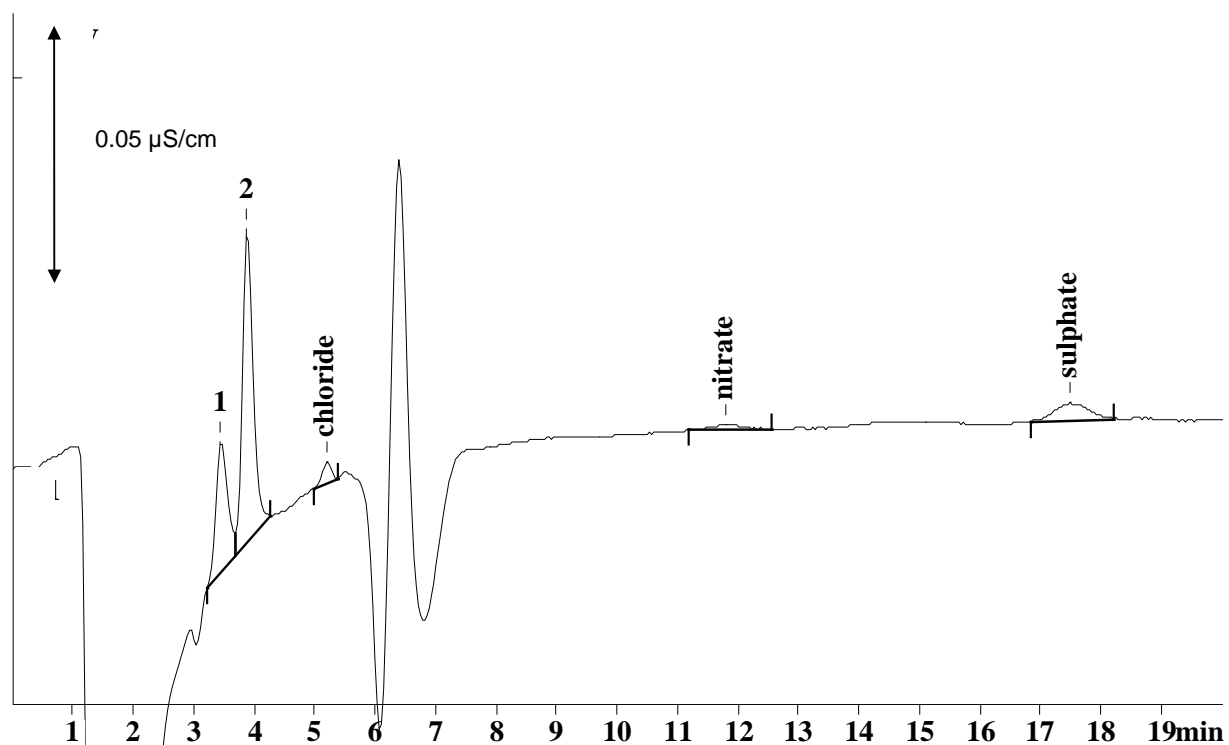
Column: 6.1006.100 Metrosep Anion Dual 2

Eluent: 2.0 mmol/L sodium hydrogencarbonate,
1.3 mmol/L sodium carbonate

Suppressor: Metrohm Suppressor Module (MSM, 50 mmol/L H₂SO₄)

Flow: 0.8 mL/min

Injection Volume: 25 mL (on pre-concentration cartridge)



Results:	Chloride ng/L (ppt)	Nitrate ng/L (ppt)	Sulphate ng/L (ppt)
	4	3	19